



PATENT
Attorney Docket No. UCSD-06783

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ronald Vale

Serial No.: 10/031,819

Filed: 01/16/2002

Entitled: Assays for Detecting Modulators of Cytoskeletal Function

Group No.: Not yet assigned

Examiner: Not yet assigned

TRANSMITTAL LETTER

Assistant Commissioner for Patents
Washington, D.C. 20231

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By: Cliff Cannon-Cin

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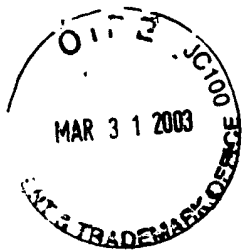
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The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

The following patents are referred to in the body of the specification:

- U.S. Patent No. 4,391,904 issued 7/5/83 to Litman *et al.*;
- U.S. Patent No. 5,143,854 issued 9/1/92 to Pirrung *et al.*;
- WO 90/15070 published 12/13/90;
- WO 92/10092 published 6/25/92;
- WO 93/09668 published 5/27/93;
- U.S. Patent No. 5,559,410 issued 9/24/96 to Papazian *et al.*;
- U.S. Patent No. 5,585,639 issued 12/17/96 to Dorsel *et al.*;
- U.S. Patent No. 5,576,220 issued 11/19/96 to Hudson *et al.*;
- U.S. Patent No. 5,541,061 issued 7/30/96 to Fodor *et al.*;

- U.S. Patent No. 3,817,837 issued 6/18/74 to Rubenstein *et al.*;
- U.S. Patent No. 3,850,752 issued 11/26/74 to Schuurs *et al.*;
- U.S. Patent No. 3,939,350 issued 2/17/76 to Kronick *et al.*;
- U.S. Patent No. 3,996,345 issued 12/7/76 to Ullman *et al.*;
- U.S. Patent No. 4,277,437 issued 7/7/81 to Maggio;
- U.S. Patent No. 4,275,149 issued 6/23/81 to Litman *et al.*;
- U.S. Patent No. 4,366,241 issued 12/28/82 to Tom *et al.*;
- U.S. Patent No. 5,644,048 issued 7/1/97 to Yau;
- U.S. Patent No. 5,386,023 issued 1/31/95 to Sanghvi *et al.*;
- U.S. Patent No. 5,637,684 issued 6/10/97 to Cook *et al.*;
- U.S. Patent No. 5,602,240 issued 2/11/97 to De Mesmaeker *et al.*;
- U.S. Patent No. 5,216,141 issued 6/1/93 to Benner;
- U.S. Patent No. 4,469,863 issued 9/4/84 to Ts'o *et al.*;
- U.S. Patent No. 5,235,033 issued 8/10/93 to Summerton *et al.*;
- U.S. Patent No. 5,034,506 issued 7/23/91 to Summerton *et al.*;
- U.S. Patent No. 5,010,175 issued 4/23/91 to Rutter *et al.*;
- WO 91/19735 published 12/26/91;
- WO 93/20242 published 10/14/93;
- WO 92/00091 published 1/9/92;
- U.S. Patent No. 5,288,514 issued 12/22/94 to Ellman;
- U.S. Patent No. 5,539,083 issued 7/23/96 to Cook *et al.*;
- WO 97/00271 published 1/3/97;
- U.S. Patent No. 5,593,853 issued 1/14/97 to Chen *et al.*;
- U.S. Patent No. 5,569,588 issued 10/29/96 to Ashby *et al.*;
- U.S. Patent No. 5,549,974 issued 8/27/96 to Holmes;
- U.S. Patent No. 5,525,735 issued 6/11/96 to Gallop *et al.*;
- U.S. Patent No. 5,519,134 issued 5/21/96 to Acevedo *et al.*; and
- U.S. Patent No. 5,506,337 issued 4/9/96 to Summerton *et al.*

The following printed publications are referred to in the body of the specification:

- Vale and Kreis, 1993, Guidebook to the Cytoskeletal and Motor Proteins, NY, Oxford University Press;

- Alberts *et al.*, 1994, in *Molecular Biology of the Cell*, 3rd ed., Garland Publishing, Inc., New York, pp. 788-858;
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- Yamamoto *et al.* (1982) "Mechanism of Interaction of *Dictyostelium* Severin with Actin Filaments," *J. Cell Biol.* 95:711-719;
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The following references were cited in the International Search Report, dated November 25, 1998 of the related PCT International Application No. PCT/US98/18368 and may be material to the examination of this application.

- Ma *et al.* (1996) "Colocalization of cell division proteins FtsZ and FtsA to cytoskeletal structures in living Escherichia coli cells by using green fluorescent protein," Proc. Soc. Natl. Acad. Sci. USA 93:12998-13003;
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Applicants have become aware of the following printed publication which may be material to the examination of this application:

- Broach *et al.* (1996) "High-throughput screening for drug discovery," Nature 384, Suppl. 7:14-16.

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material

to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Signed on behalf of:

Dated:

3/25/03

Maha Hamdan

Maha A. Hamdan

Registration No. 43,655

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FORM PTO-1449
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(37 CFR § 1.98(b))

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Filing Date: 01/16/2002

Group Art Unit:

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
	1	4,391,904	7/5/83	Litman <i>et al.</i>			
	2	5,143,854	9/1/92	Pirrung <i>et al.</i>			
		5,559,410	9/24/96	Papazian <i>et al.</i>			
		5,585,639	12/17/96	Dorsel <i>et al.</i>			
	5	5,576,220	11/19/96	Hudson <i>et al.</i>			
	6	5,541,061	7/30/96	Fodor <i>et al.</i>			
	7	3,817,837	6/18/74	Rubenstein <i>et al.</i>			
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	11	4,277,437	7/7/81	Maggio			
	12	4,275,149	6/23/81	Litman <i>et al.</i>			
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	21	5,034,506	7/23/91	Summerton <i>et al.</i>			
	22	5,010,175	4/23/91	Rutter <i>et al.</i>			
	23	5,288,514	12/22/94	Ellman			
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Examiner:

Date Considered:

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(37 CFR § 1.98(b))

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FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
	31	WO 90/15070	12/13/90	PCT				
	32	WO 92/10092	6/25/92	PCT				
	33	WO 93/09668	5/27/93	PCT				
	34	WO 91/19735	12/26/91	PCT				
	35	WO 93/20242	10/14/93	PCT				
	36	WO 92/00091	1/9/92	PCT				
	37	WO 97/00271	1/3/97	PCT				

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39	Alberts <i>et al.</i> , 1994, in <i>Molecular Biology of the Cell</i> , 3rd ed., Garland Publishing, Inc., New York, pp. 788-858
40	Goldstein (1993) "With Apologies to Scheherazade: Tails of 1001 Kinesin Motors," <i>Ann. Rev. Genetics</i> 27:319-351
41	Mooseker and Cheney (1995) "Unconventional Myosins," <i>Annu. Rev. Cell Biol.</i> 11:633-675
42	Turner <i>et al.</i> (1996) "Kinesin Movement on Glutaraldehyde-Fixed Microtubules," <i>Anal. Biochem.</i> 242(1):20-25
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48	Stryer (1978) "Fluorescence Energy Transfer as a Spectroscopic Ruler," <i>Ann. Rev. Biochem.</i> 47:819-846
49	Taylor <i>et al.</i> (1981) "Detection of Actin Assembly by Fluorescence Energy Transfer," <i>J. Cell Biol.</i> 89:362-367
50	Yamamoto <i>et al.</i> (1982) "Mechanism of Interaction of <i>Dictyostelium</i> Severin with Actin Filaments," <i>J. Cell Biol.</i> 95:711-719
51	Gupta <i>et al.</i> (1998) "Optical Amplification of Ligand-Receptor Binding Using Liquid Crystals," <i>Science</i> 279:2077-2080
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53	Fields and Song (1989) "A novel genetic system to detect protein-protein interactions," <i>Nature</i> 340:245-246
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